

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_cntrl_mntr_system	energy_control_monitoring_cable_line	String/Chain	Data transmission media, typically fiber optics or shielded twisted-pair.
utilities_cntrl_mntr_system	energy_control_monitoring_device_point	Point	Devices used in an energy monitoring/control system to collect, process or transmit data signals.
utilities_cntrl_mntr_system	energy_control_monitoring_ductbank_line	String/Chain	A structure containing multiple conduits used to protect underground cables.
utilities_cntrl_mntr_system	energy_control_monitoring_junction_point	Point	A box or small vault located below grade with above grade access where cables intersect, connect, or pass through.
utilities_cntrl_mntr_system	energy_control_monitoring_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc.
utilities_electrical_ext_light	exterior_lighting_point	Point	Locations of point sources of general external lighting.
utilities_electrical_system	electrical_bus_line	String/Chain	A rigid metallic conductor (copper or aluminum), typically in the form of a flat bar, angle stock, or square tubing.
utilities_electrical_system	electrical_cable_line	String/Chain	A group of conductors used to carry electrical energy from point to point.
utilities_electrical_system	electrical_capacitor_point	Point	An electrical device placed in a circuit to correct power factor by adding reactive power to the circuit.
utilities_electrical_system	electrical_ductbank_line	String/Chain	A tubular structure that provides protection for underground cables contained in conduit.
utilities_electrical_system	electrical_generator_point	Point	A machine which converts mechanical energy into electrical energy.
utilities_electrical_system	electrical_ground_point	Point	The location where the electrical configuration is grounded.
utilities_electrical_system	electrical_junction_point	Point	A box or small vault (usually concrete, brick, or metal) typically located below grade with above grade access in which cables intersect, connect, or pass through.
utilities_electrical_system	electrical_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc., identifying the location of the electrical equipment.
utilities_electrical_system	electrical_meter_point	Point	A device installed in a line for measuring the electrical power supplied to a facility or through a section of line.
utilities_electrical_system	electrical_motor_point	Point	A machine that converts electrical energy into mechanical energy.
utilities_electrical_system	electrical_pedestal_point	Point	An above ground enclosure which provides access to underground cables.
utilities_electrical_system	electrical_regulator_point	Point	An electrical device that maintains its output voltage at a certain level even though its input voltage varies in a certain range over time.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_electrical_system	electrical_splice_point	Point	The connection of two separate cables at their ends or the tapping of a conductor along the path of another conductor.
utilities_electrical_system	electrical_substation_point	Point	A facility in an electrical system where the voltage is reduced from transmission levels to distribution levels.
utilities_electrical_system	electrical_switch_point	Point	A device which closes and opens (connects and disconnects) an electrical circuit.
utilities_electrical_system	electrical_transformer_bank_point	Point	A location containing one or more transformers.
utilities_electrical_system	electrical_transformer_point	Point	A device for increasing or decreasing voltage levels in an electrical system.
utilities_electrical_system	electrical_transformer_vault_point	Point	An enclosure housing one or more transformers.
utilities_fuel_system	fuel_air_eliminator_point	Point	A device or structure placed in the fuel distribution system to separate air from petroleum products.
utilities_fuel_system	fuel_anode_point	Point	A material used for utility distribution systems that is electrically connected to a less electrolytically active material so that it will oxidize in the place of the less active material.
utilities_fuel_system	fuel_anode_test_station_point	Point	A central location where anodes are tested for performance.
utilities_fuel_system	fuel_filter_strainer_point	Point	A device through which fuel is passed to remove impurities to the fuel. Usually placed in fuel lines near fill points.
utilities_fuel_system	fuel_fitting_point	Point	A fitting is an item used to connect, cap, plug or otherwise alter a pipe.
utilities_fuel_system	fuel_flow_direction_arrow_point	Point	A flow direction arrow indicates the direction of flow through a line, valve, or component.
utilities_fuel_system	fuel_hydrant_point	Point	Location where fuel is control discharged to users.
utilities_fuel_system	fuel_junction_point	Point	A box or small vault (usually concrete, brick, or cast iron) located below grade with above grade access where pipes intersect. The manhole also houses associated fittings, valves, meters, etc.
utilities_fuel_system	fuel_line	String/Chain	A pipe used to carry a substance from location to location (main line, service line, vent line, etc).
utilities_fuel_system	fuel_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc.
utilities_fuel_system	fuel_meter_point	Point	A device installed in a line for measuring the quantity and or rate of fuel to a facility or through a section of line.
utilities_fuel_system	fuel_oil_water_separator_point	Point	A filtering device placed in the fuel stream specifically to remove oil and water from the fuel.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_fuel_system	fuel_pump_booster_station_point	Point	A building in which one or more pumps operate to supply material flowing at adequate pressure to or from a distribution system.
utilities_fuel_system	fuel_pump_point	Point	A mechanical device that draws material into itself through an entrance port and forces the material out through an exhaust port.
utilities_fuel_system	fuel_rectifier_point	Point	A device that changes alternating current to direct current for an impressed current cathodic protection system on an element of the distribution system.
utilities_fuel_system	fuel_regulator_reducer_point	Point	A pressure regulator automatically reduces the pressure on the downstream side of the valve to a preset magnitude.
utilities_fuel_system	fuel_source_point	Point	The point from which the utility is supplied a product for processing and distribution.
utilities_fuel_system	fuel_tank_point	Point	An above or below grade receptacle or chamber for holding components on a temporary basis prior to transfer or use.
utilities_fuel_system	fuel_valve_point	Point	A fitting or device used for shutting or throttling flow through a line.
utilities_general	utility_pole_guy_point	Point	A support configuration, which generally includes connecting hardware, cables, and anchor components, used to stabilize structures (poles, towers, etc.). Down guys typically connect to the structures at key stress points and extend to an anchor at the ground.
utilities_general	utility_pole_tower_point	Point	A structure used to elevate wires, cables, or other lines above the ground surface.
utilities_heat_cool_system	heat_cool_anchor_point	Point	A structure, typically concrete, used to either guide the expansion of pipes or used to fix the movement of some part of the expansion section.
utilities_heat_cool_system	heat_cool_anode_point	Point	A device used in utility distribution systems that is electrically connected to a less electrolytically active material so that it will oxidize in the place of the less active material.
utilities_heat_cool_system	heat_cool_anode_test_station_point	Point	A central location where anodes are tested for performance.
utilities_heat_cool_system	heat_cool_fitting_point	Point	A fitting is an item used to connect, cap, plug or otherwise attach to a pipe.
utilities_heat_cool_system	heat_cool_flow_direction_arrow_point	Point	A flow direction arrow indicates the direction of flow through a line, valve, or component.
utilities_heat_cool_system	heat_cool_junction_point	Point	A box or small vault (usually concrete, brick, or cast iron) located below grade with above grade access where pipes intersect. The manhole also houses associated fittings, valves, meters, etc.
utilities_heat_cool_system	heat_cool_line	String/Chain	A pipe used to carry a substance from location to location (main line, service line, vent line, etc).
utilities_heat_cool_system	heat_cool_marker_point	Point	A sign, concrete monument, etc., installed either directly above or immediately adjacent equipment marking its location.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_heat_cool_system	heat_cool_meter_point	Point	A device installed in a line for measuring the quantity and or rate of water to a facility or through a section of line.
utilities_heat_cool_system	heat_cool_plant_area	G/GT Polygon	A building or structure containing boilers, furnaces, chillers, pumps and appurtenant equipment to produce the water temperature/pressure combinations which are distributed to other buildings and facilities.
utilities_heat_cool_system	heat_cool_pump_point	Point	A mechanical device that draws material into itself through an entrance port and forces the material out through an exhaust port.
utilities_heat_cool_system	heat_cool_rectifier_point	Point	A device that changes alternating current to direct current for an impressed current cathodic protection system.
utilities_heat_cool_system	heat_cool_regulator_point	Point	A pressure regulator automatically reduces the pressure on the downstream side of the valve to a preset magnitude.
utilities_heat_cool_system	heat_cool_valve_point	Point	A fitting or device used for shutting or throttling flow through a line.
utilities_industrial_system	industrial_waste_discharge_point	Point	Any location where industrial waste water pipes directly discharge effluent.
utilities_industrial_system	industrial_waste_fitting_point	Point	A fitting is an item used to connect, cap, plug or otherwise alter a pipe.
utilities_industrial_system	industrial_waste_flow_direction_arrow_point	Point	A flow direction arrow indicates the direction of flow through a line, valve, or component.
utilities_industrial_system	industrial_waste_grit_chamber_point	Point	A chamber designed to remove sand, gravel, or other heavy solids that have subsiding velocities or specific gravities substantially greater than those of the organic solids in the waste water.
utilities_industrial_system	industrial_waste_inlet_point	Point	The location where water is collected and received into the utility system.
utilities_industrial_system	industrial_waste_junction_point	Point	A box or small vault (usually concrete, brick, or cast iron) located below grade with above grade access where pipes intersect. The manhole also houses associated fittings, valves, meters, etc.
utilities_industrial_system	industrial_waste_lagoon_area	G/GT Polygon	A shallow man made pool or pond for the purpose of holding industrial waste.
utilities_industrial_system	industrial_waste_line	String/Chain	A pipe used to carry a substance from location to location (main line, service line, vent line, etc).
utilities_industrial_system	industrial_waste_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc.
utilities_industrial_system	industrial_waste_meter_point	Point	A device installed in a line for measuring the quantity and or rate of waste through a section of line.
utilities_industrial_system	industrial_waste_neutralizer_point	Point	A receptacle or chamber, which by chemical reactions with reactant materials in the receptacle, makes liquid waste passing through the receptacle chemically neutral.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_industrial_system	industrial_waste_oil_water_separator_point	Point	A device or structure placed in the waste stream to separate water from oil products.
utilities_industrial_system	industrial_waste_pump_point	Point	A mechanical device that draws material into itself through an entrance port and forces the material out through an exhaust port.
utilities_industrial_system	industrial_waste_pump_station_ejector_point	Point	A building in which one or more pumps operate to supply material flowing at adequate pressure to or from a distribution system.
utilities_industrial_system	industrial_waste_tank_point	Point	An above or below grade receptacle or chamber for holding components on a temporary basis prior to transfer or use.
utilities_industrial_system	industrial_waste_treatment_plant_area	G/GT Polygon	Equipment; or a structure containing equipment, processes, piping, or components; used to treat and remove unwanted constituents.
utilities_industrial_system	industrial_waste_valve_point	Point	A fitting or device used for shutting or throttling flow through a line.
utilities_natural_gas_system	natural_gas_anode_point	Point	A material used for utility distribution systems that is electrically connected to a less electrolytically active material so that it will oxidize in the place of the less active material.
utilities_natural_gas_system	natural_gas_anode_test_station_point	Point	A central location where anodes are tested for performance.
utilities_natural_gas_system	natural_gas_fill_point	Point	Location where gas is control discharged to users.
utilities_natural_gas_system	natural_gas_fitting_point	Point	Hardware used to cap, plug, or join pieces of pipe.
utilities_natural_gas_system	natural_gas_flow_direction_arrow_point	Point	A flow direction arrow indicates the direction of flow through a line, valve, or component.
utilities_natural_gas_system	natural_gas_junction_point	Point	A box or small vault (usually concrete, brick, or cast iron) located below grade with above grade access where pipes intersect. The manhole also houses associated fittings, valves, meters, etc.
utilities_natural_gas_system	natural_gas_light_point	Point	A point graphic representing the location of a gas light fixture. A gas light fixture utilizes gas as it's energy source and contains a flame used for illumination of an area.
utilities_natural_gas_system	natural_gas_line	String/Chain	A pipe used to carry a substance from location to location (main line, service line, vent line, etc).
utilities_natural_gas_system	natural_gas_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc.
utilities_natural_gas_system	natural_gas_meter_point	Point	A device installed in a line for measuring the quantity and or rate of gas to a facility or through a section of line.
utilities_natural_gas_system	natural_gas_pump_point	Point	A mechanical device that draws material into itself through an entrance port and forces the material out through an exhaust port.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_natural_gas_system	natural_gas_pump_station_point	Point	A building in which one or more pumps operate to supply material flowing at adequate pressure to or from a distribution system.
utilities_natural_gas_system	natural_gas_rectifier_point	Point	A device that changes alternating current to direct current for an impressed current cathodic protection system on an element of the distribution system.
utilities_natural_gas_system	natural_gas_regulator_reducer_point	Point	A pressure regulator automatically reduces the pressure on the downstream side of the valve to a preset magnitude.
utilities_natural_gas_system	natural_gas_source_point	Point	The point from which the utility is supplied a product for processing and distribution.
utilities_natural_gas_system	natural_gas_tank_point	Point	An above or below grade receptacle or chamber for holding components on a temporary basis prior to transfer or use.
utilities_natural_gas_system	natural_gas_valve_point	Point	A fitting or device used for shutting or throttling flow through a line.
utilities_storm_system	storm_sewer_armor_point	Point	Any location where armor stone is used for erosion protection in an open channel.
utilities_storm_system	storm_sewer_culvert_line	String/Chain	Interception and removal of ground water or surface water.
utilities_storm_system	storm_sewer_discharge_point	Point	Any location where storm sewer pipes directly discharge effluent.
utilities_storm_system	storm_sewer_downspout_point	Point	A pipe normally attached to the side of a building or structure which conveys rainfall runoff from the roof area to the ground surface or an underground collection system.
utilities_storm_system	storm_sewer_drainage_basin_area	G/GT Polygon	An area in which surface runoff collects and from which it is carried by a drainage system.
utilities_storm_system	storm_sewer_drainage_divide_line	String/Chain	The border of a drainage basin where one side directs runoff to one basin and the other side directs runoff to a different basin.
utilities_storm_system	storm_sewer_fitting_point	Point	A fitting is an item used to connect, cap, plug or otherwise alter a pipe.
utilities_storm_system	storm_sewer_flood_area	G/GT Polygon	Areas where the storm sewer drainage capacity has been exceeded resulting in localized flooding.
utilities_storm_system	storm_sewer_flow_control_point	Point	Devices for a storm water system to control the pressure in and out of the open channel.
utilities_storm_system	storm_sewer_flow_direction_arrow_point	Point	A flow direction arrow indicates the direction of flow through a line, valve, or component.
utilities_storm_system	storm_sewer_gate_point	Point	A movable barrier used in an open channel.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_storm_system	storm_sewer_headwall_point	Point	A wall (of any material) at the end of a culvert or drain to serve one or more of the following purposes: protect fill from scour or undermining; increase hydraulic efficiency, divert direction of flow, and serve as a retaining wall.
utilities_storm_system	storm_sewer_inlet_point	Point	The location where water is collected and recieved into the utility system.
utilities_storm_system	storm_sewer_junction_point	Point	A box or small vault (usually concrete, brick, or cast iron) located below grade with above grade access where pipes intersect. The manhole also houses associated fittings, valves, meters, etc.
utilities_storm_system	storm_sewer_line	String/Chain	A pipe used to carry a substance from location to location (main line, service line, vent line, etc).
utilities_storm_system	storm_sewer_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc.
utilities_storm_system	storm_sewer_oil_water_separator_point	Point	A device or structure placed in the water stream to separate water from oil products.
utilities_storm_system	storm_sewer_open_drainage_line	String/Chain	Interception and removal of ground water or surface water by natural means.
utilities_storm_system	storm_sewer_pump_point	Point	A mechanical device that draws material into itself through an entrance port and forces the material out through an exhaust port.
utilities_storm_system	storm_sewer_pump_station_point	Point	A building in which one or more pumps operate to supply material flowing at adequate pressure to or from a distribution system.
utilities_storm_system	storm_sewer_reservoir_point	Point	The location where storm sewer water is collected.
utilities_storm_system	storm_sewer_stilling_basin_point	Point	The location where the energy from turbulent water flow is reduced.
utilities_storm_system	storm_sewer_valve_point	Point	A fitting or device used for shutting or throttling flow through a line.
utilities_wastewater_system	wastewater_discharge_point	Point	Any location where wastewater pipes directly discharge effluent.
utilities_wastewater_system	wastewater_disposal_tank_point	Point	An above or below grade receptacle or chamber for holding components on a temporary basis prior to transfer or use.
utilities_wastewater_system	wastewater_downspout_point	Point	A pipe normally attached to the side of a building or structure which conveys rainfall runoff from the roof area to the ground surface or an underground collection system.
utilities_wastewater_system	wastewater_drain_field_area	G/GT Polygon	The area of influence where perforated pipe placed in gravel trenches carries effluent from a waste storage containment for percolation into the earth.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_wastewater_system	wastewater_filtration_bed_area	Point	A below grade system consisting of perforated piping installed in sand or gravel beds or trenches designed to permit the uniform distribution and absorption of effluent from a septic tank or aerobic unit into the soil.
utilities_wastewater_system	wastewater_fitting_point	Point	A fitting is an item used to connect, cap, plug or otherwise alter a pipe.
utilities_wastewater_system	wastewater_flow_direction_arrow_point	Point	A flow direction arrow indicates the direction of flow through a line, valve, or component.
utilities_wastewater_system	wastewater_grease_trap_point	Point	A tank which separates grease from water, collects the grease for removal, and allows the water to exit.
utilities_wastewater_system	wastewater_grit_chamber_point	Point	A chamber designed to remove sand, gravel, or other heavy solids that have subsiding velocities or specific gravities substantially greater than those of the organic solids in the waste water.
utilities_wastewater_system	wastewater_junction_point	Point	A box or small vault (usually concrete, brick, or cast iron) located below grade with above grade access where pipes intersect. The manhole also houses associated fittings, valves, meters, etc.
utilities_wastewater_system	wastewater_lagoon_area	G/GT Polygon	A shallow man made pool or pond for the purpose of providing treatment of domestic wastewater.
utilities_wastewater_system	wastewater_line	String/Chain	A pipe used to carry a substance from location to location (main line, service line, vent line, etc).
utilities_wastewater_system	wastewater_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc.
utilities_wastewater_system	wastewater_meter_point	Point	A device installed in a line for measuring the quantity and or rate of water through a section of line.
utilities_wastewater_system	wastewater_neutralizer_point	Point	A receptacle or chamber, which by chemical reactions with reactant materials in the receptacle, makes liquid waste passing through the receptacle chemically neutral.
utilities_wastewater_system	wastewater_oil_water_separator_point	Point	A device or structure placed in the waste stream to separate water from oil products.
utilities_wastewater_system	wastewater_pump_ejector_station_point	Point	A building in which one or more pumps operate to supply material flowing at adequate pressure to or from a distribution system.
utilities_wastewater_system	wastewater_pump_point	Point	A mechanical device that draws material into itself through an entrance port and forces the material out through an exhaust port.
utilities_wastewater_system	wastewater_septic_tank_point	Point	Typically, a below grade receptacle or chamber in which solid organic waste is decomposed and purified by anaerobic bacteria.
utilities_wastewater_system	wastewater_treatment_plant_area	G/GT Polygon	Equipment; or a structure containing equipment, processes, piping, or components; used to treat and remove unwanted constituents.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_wastewater_system	wastewater_treatment_unit_area	Point	A waste water treatment plant and all appurtenant equipment, buildings, and facilities relating to water treatment.
utilities_wastewater_system	wastewater_valve_point	Point	A fitting or device used for shutting or throttling flow through a line.
utilities_water_system	water_anode_point	Point	A material used for utility distribution systems that is electrically connected to a less electrolytically active material so that it will oxidize in the place of the less active material.
utilities_water_system	water_anode_test_station_point	Point	A central location where anodes are tested for performance.
utilities_water_system	water_fire_connection_point	Point	An apparatus which dispenses fluids for use in fire management.
utilities_water_system	water_fitting_point	Point	A fitting is an item used to connect, cap, plug or otherwise alter a pipe.
utilities_water_system	water_hydrant_point	Point	An apparatus which dispenses fluids.
utilities_water_system	water_intake_point	Point	The location where water is allowed into the water distribution system.
utilities_water_system	water_junction_point	Point	A box or small vault (usually concrete, brick, or cast iron) located below grade with above grade access where pipes intersect. The manhole also houses associated fittings, valves, meters, etc.
utilities_water_system	water_line	String/Chain	A pipe used to carry a substance from location to location (main line, service line, vent line, etc).
utilities_water_system	water_marker_point	Point	A sign, concrete monument, etc. installed either directly above or immediately adjacent to underground lines, bends, fittings, etc.
utilities_water_system	water_meter_point	Point	A device installed in a line for measuring the quantity and or rate of water flowing to a facility or through a section of line.
utilities_water_system	water_pressure_reducing_station_point	Point	A station consists of a box/pit containing one or more pressure regulators and appurtenant shutoff valves and fittings.
utilities_water_system	water_pump_point	Point	A mechanical device that draws material into itself through an entrance port and forces the material out through an exhaust port.
utilities_water_system	water_pump_station_point	Point	A building in which one or more pumps operate to supply material flowing at adequate pressure to or from a distribution system.
utilities_water_system	water_rectifier_point	Point	A device that changes alternating current to direct current for an impressed current cathodic protection system on an element of the distribution system.
utilities_water_system	water_regulator_reducer_point	Point	A pressure regulator automatically reduces the pressure on the downstream side of the valve to a preset magnitude.

Utilities (entity types)

ENTITY CLASS NAME	ENTITY TYPE NAME	OBJECT TYPE	DEFINITION
utilities_water_system	water_reservoir_area	G/GT Polygon	A body of water which supplies water to a water distribution system.
utilities_water_system	water_source_area	G/GT Polygon	The point from which the utility is supplied a product for processing and distribution.
utilities_water_system	water_system_flow_direction_arrow_point	Point	A flow direction arrow indicates the direction of flow through a line, valve, or component.
utilities_water_system	water_tank_point	Point	An above or below grade receptacle or chamber for holding components on a temporary basis prior to transfer or use.
utilities_water_system	water_treatment_plant_area	G/GT Polygon	A water treatment plant and all appurtenant equipment, buildings, and facilities relating to water treatment.
utilities_water_system	water_treatment_unit_area	G/GT Polygon	A water separation pond or other pool designed to allow solid material decomposition.
utilities_water_system	water_valve_point	Point	A fitting or device used for shutting or throttling flow through a line.
utilities_water_system	water_vent_point	Point	A valve installed in a line to either release air trapped in the line, and/or allow air into a line to relieve a vacuum condition.